**DESCRIPTION**

**Species Reactivity**  Human/Mouse/Rat/Chicken  
**Specificity**  Recognizes the A2B5 cell surface ganglioside epitope found on type II astrocytes, cells involved in gliogenesis, and cells committed to the oligodendrocyte lineage (1-4).  
**Source**  Monoclonal Mouse IgM Clone # 105  
**Purification**  IgM-specific Affinity-purified from hybridoma culture supernatant  
**Immunogen**  Embryonic chicken retinal cells  
**Formulation**  Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.  
*Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.*

**APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th><strong>APPLICATION</strong></th>
<th><strong>Recommended Concentration</strong></th>
<th><strong>Sample</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry</td>
<td>0.25 µg/10^6 cells</td>
<td>See Below</td>
</tr>
<tr>
<td>Immunocytochemistry</td>
<td>8-25 µg/mL</td>
<td>See Below</td>
</tr>
<tr>
<td>CyTOF-ready</td>
<td>Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.</td>
<td></td>
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</tbody>
</table>

**DATA**

**Flow Cytometry**  
Detection of A2B5 in NTera-2 Human Cell Line by Flow Cytometry. NTera-2 human testicular embryonic carcinoma cell line either treated with 10 µM retinoic acid for 4 days (filled histogram) or untreated (open histogram) was stained with Mouse Anti-Human/Mouse/Rat/Chicken A2B5 Monoclonal Antibody (Catalog # MAB1416), followed by Allophycocyanin-conjugated Anti-Mouse IgM Secondary Antibody (Catalog # F0117). View our protocol for Staining Membrane-associated Proteins.

**Immunocytochemistry**  
A2B5 in NTera-2 Human Cell Line. A2B5 was detected in immersion fixed NTera-2 human testicular embryonic carcinoma cell line (differentiated with retinoic acid for 10 days) using Mouse Anti-Human/Mouse/Rat/Chicken A2B5 Monoclonal Antibody (Catalog # MAB1416) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgM Secondary Antibody (red; Catalog # NL019) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

**PREPARATION AND STORAGE**

**Reconstitution**  
Reconstitute at 0.5 mg/mL in sterile PBS.

**Shipping**  
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.  
*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.*

**Stability & Storage**  
Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  
- 12 months from date of receipt, -20 to -70 °C as supplied.  
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.  
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

**BACKGROUND**

A2B5 is a cell surface ganglioside epitope expressed in developing thymic epithelial cells, oligodendrocyte progenitors, and neuroendocrine cells (1).  

**References:**